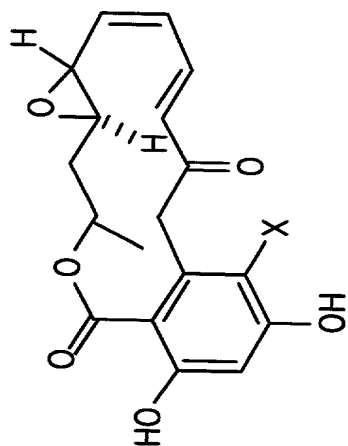
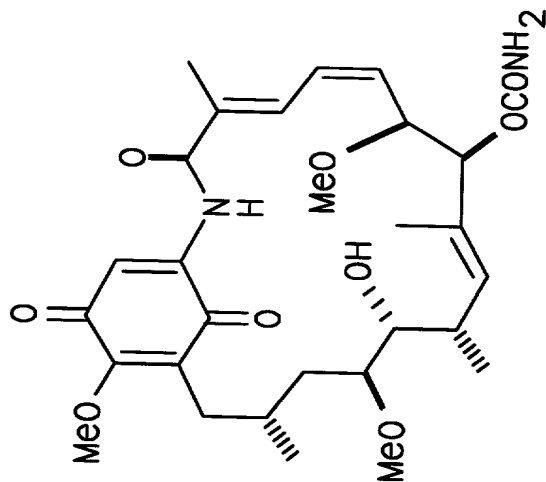


FIG. 1



X=Cl Radical (1)

X=H Monocillin I (2)



Geldanamycin (3)

FIG. 2

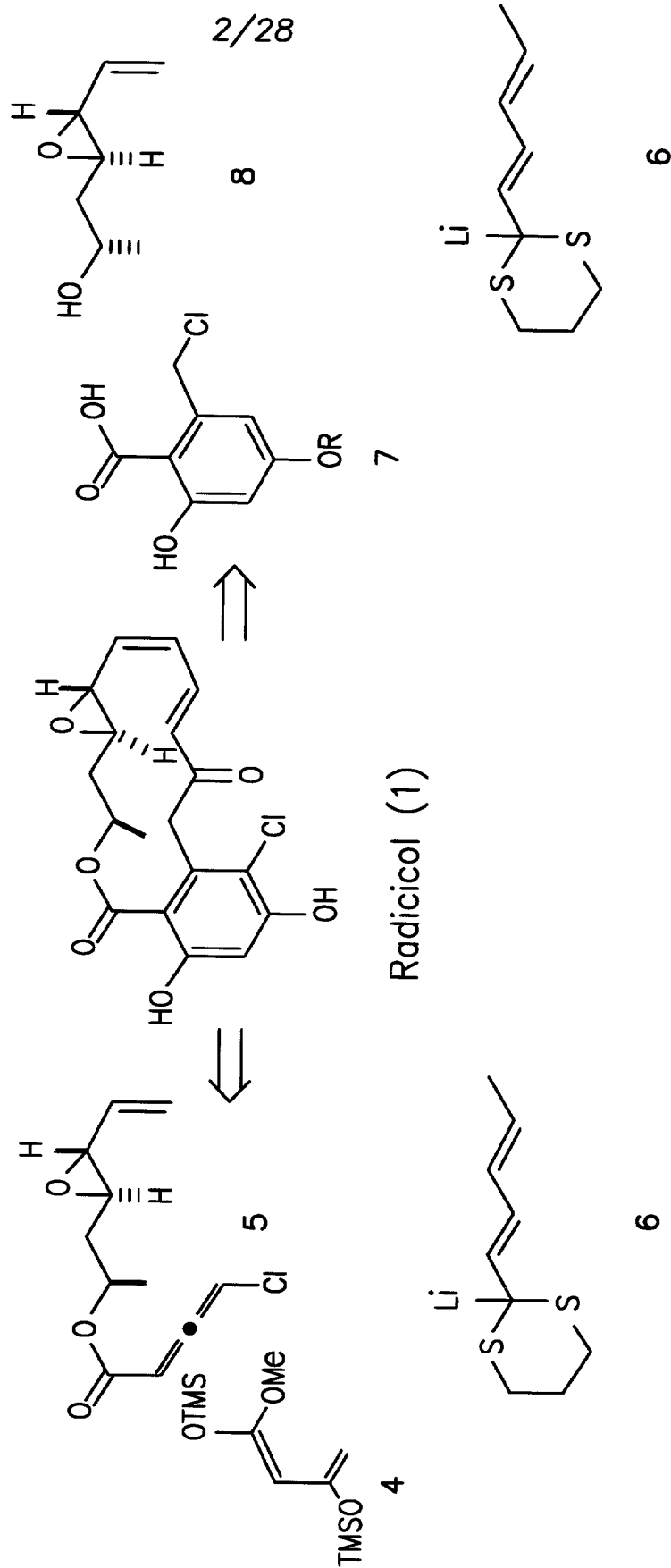
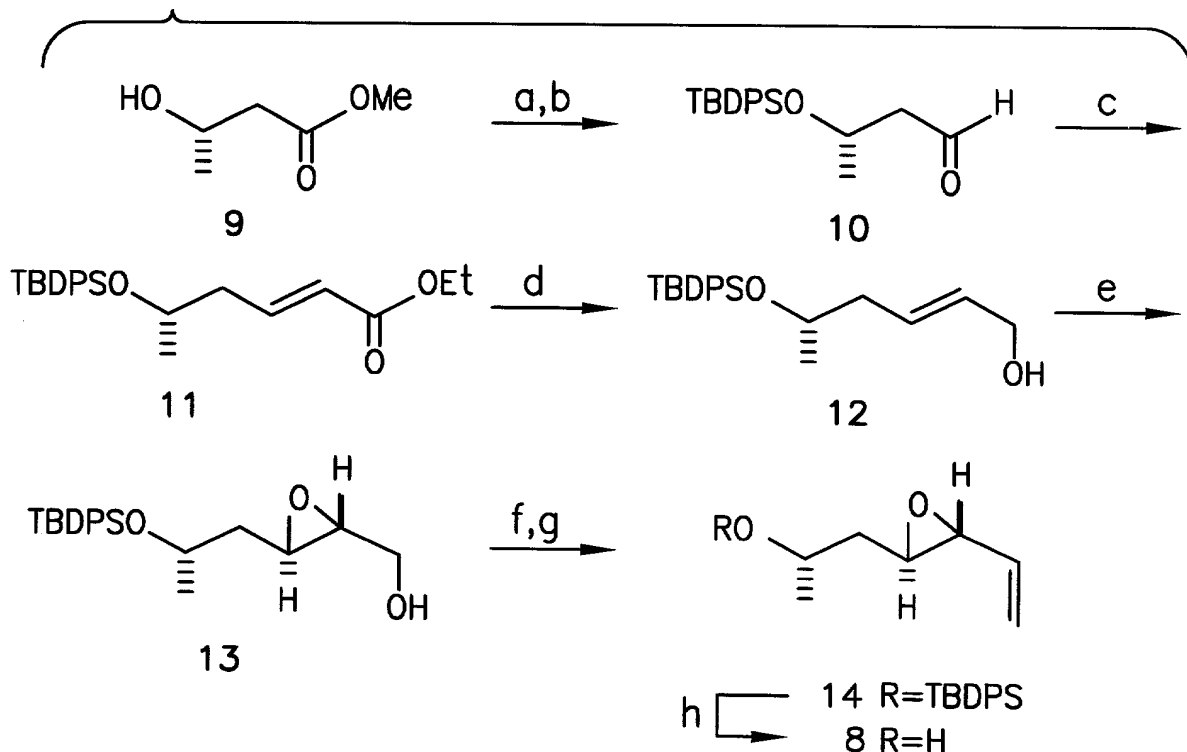


FIG.3

3/28



- (a) TBDPSCl, imid., >95%; (b) DIBAL-H, -78 °C, 92%;
 (c) LiCl, DIPEA (EtO)₂P(O)CH₂CO₂Et, 95%;
 (d) DIBAL-H, -20 °C, 96%; (e) (+)-DET, Ti(O*i*Pr)₄, TBHP, 90%, >95%ee; (f) SO₃*pyridine, Et₃N, DMSO, 90%;
 (g) PH₃PCH₃Br, NaHMDS, 0 °C, 82%; (h) TBAF, 89%.

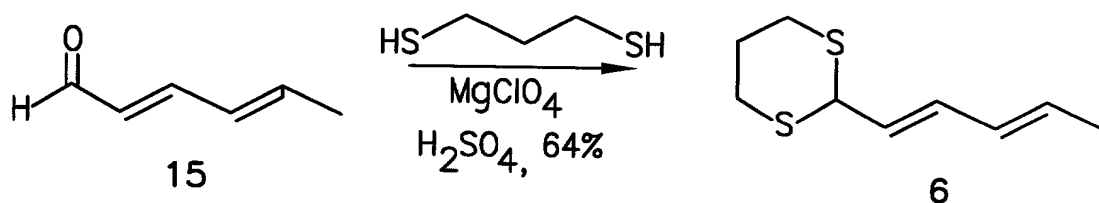
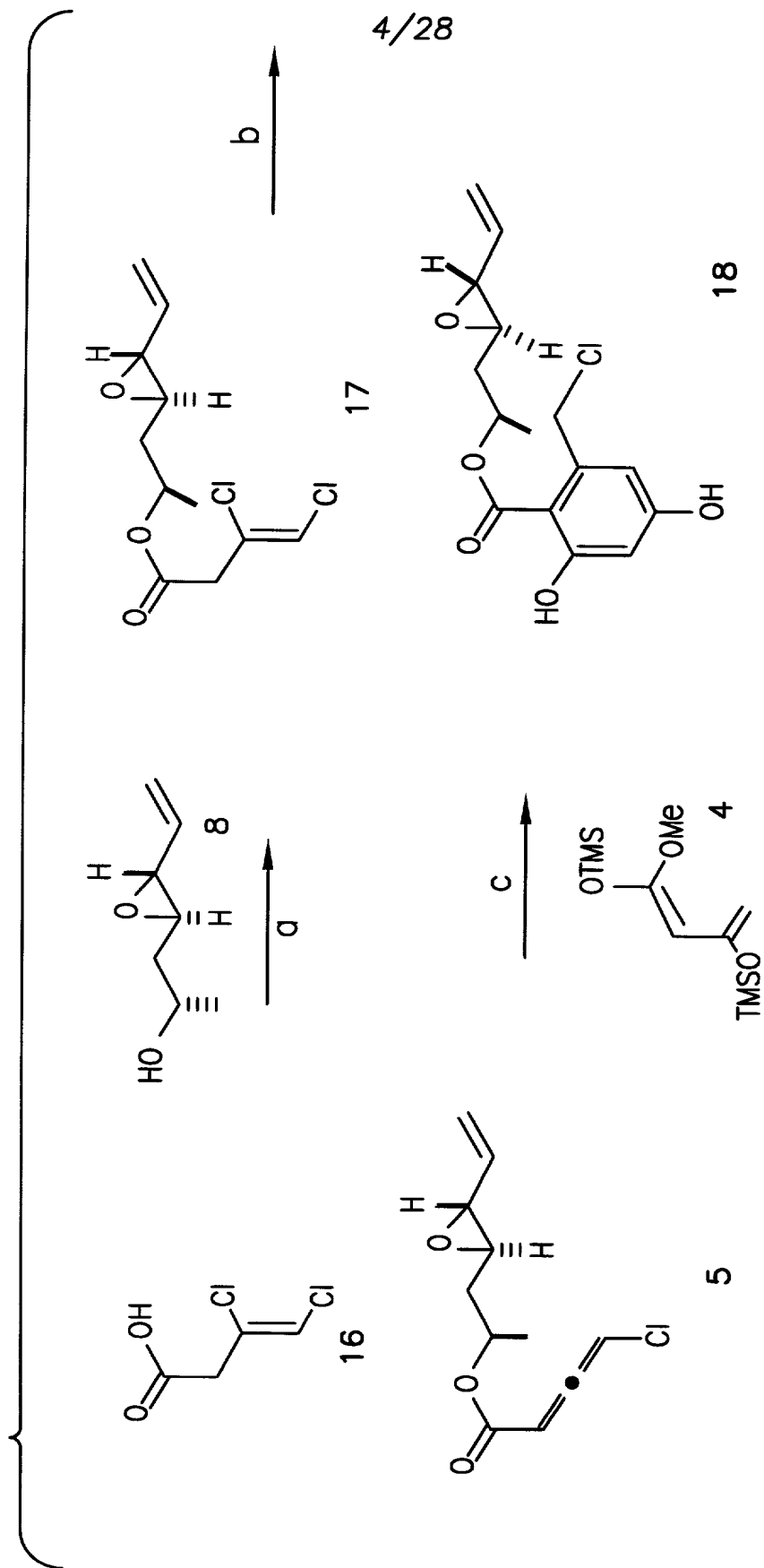


FIG. 4



(a) DEAD, PPh_3 , 70%; (b.) iPr_2NEt , 70%; (c.) 50% (4:1)

FIG.5

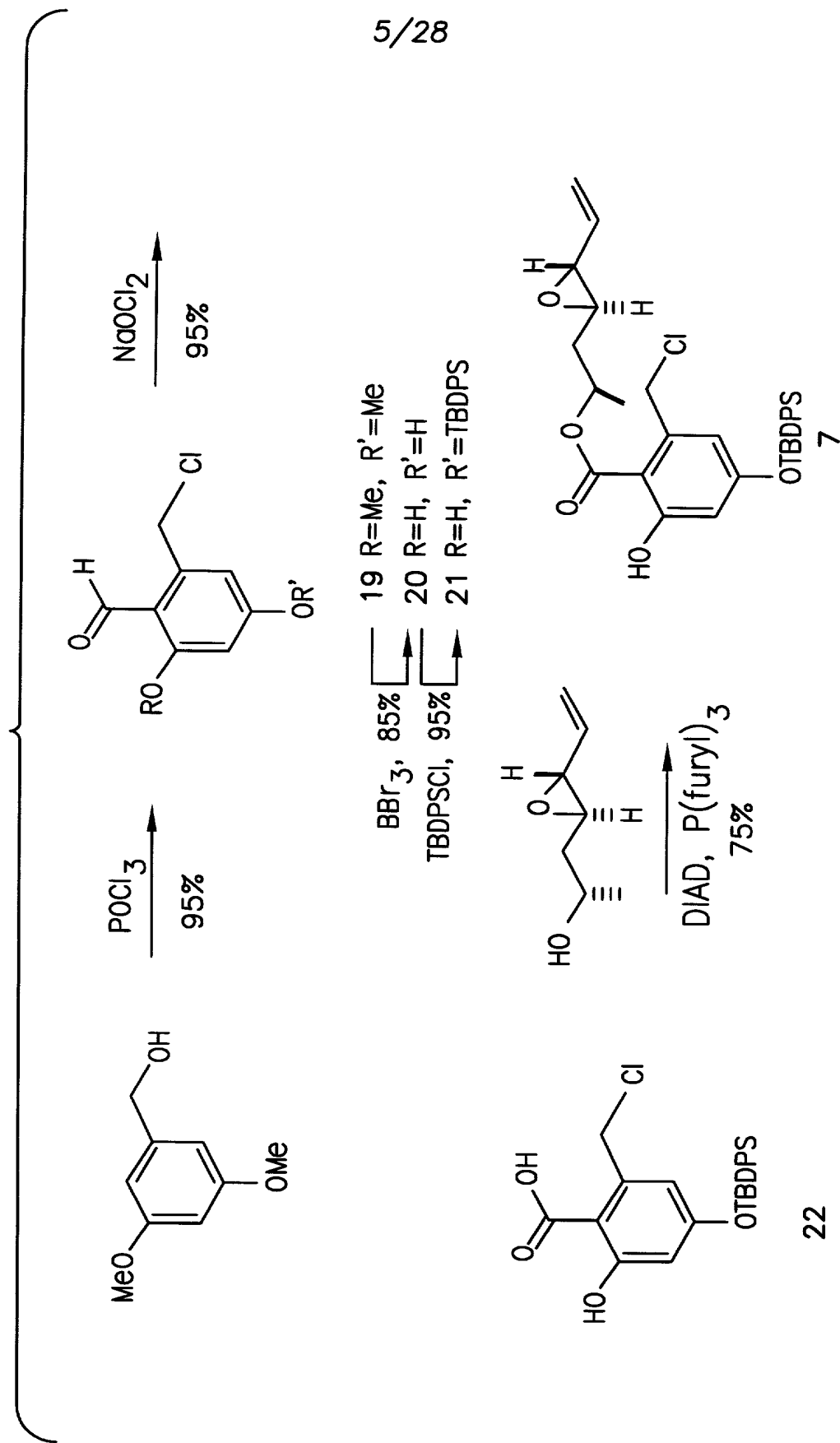


FIG. 6

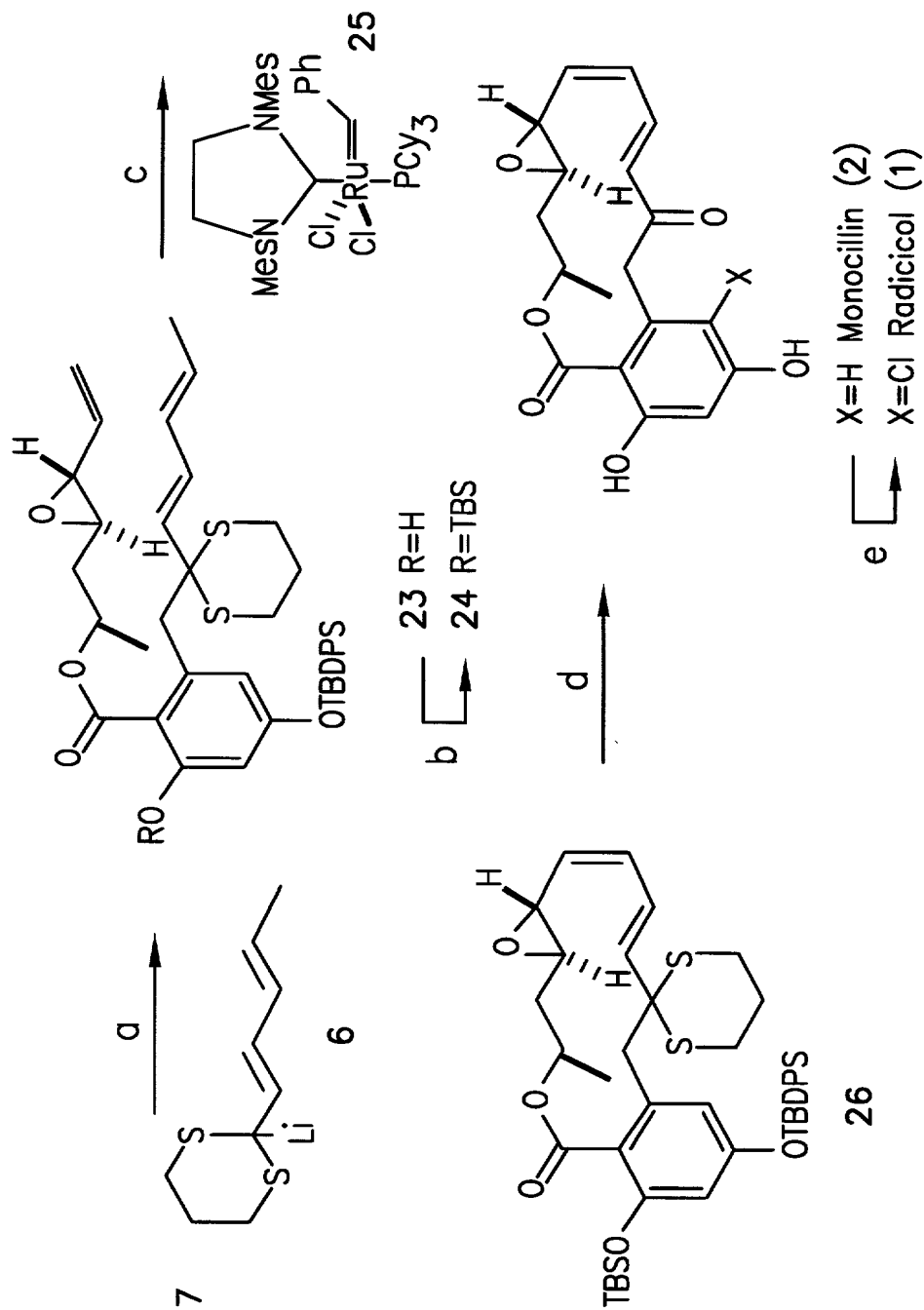


FIG. 7

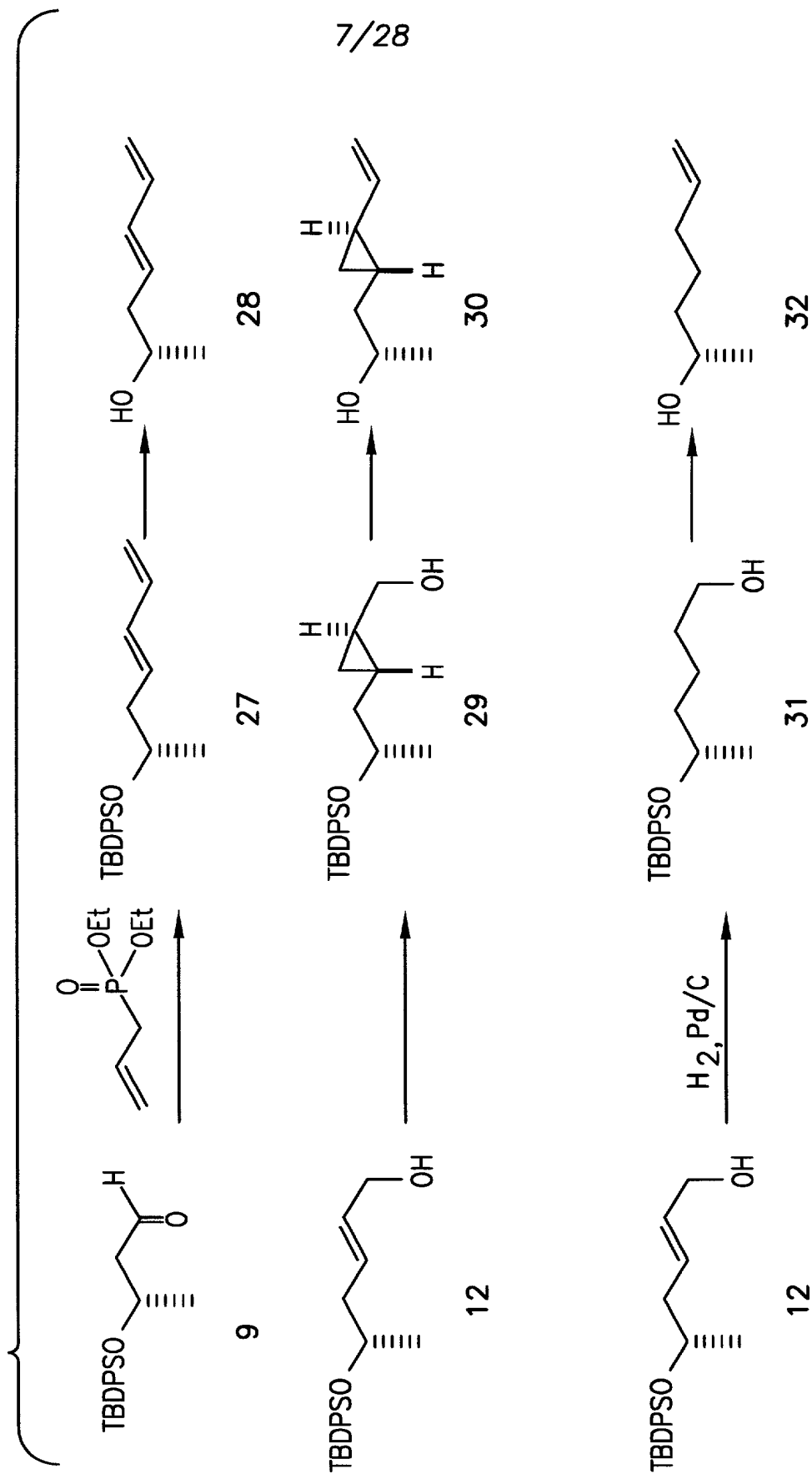


FIG. 8

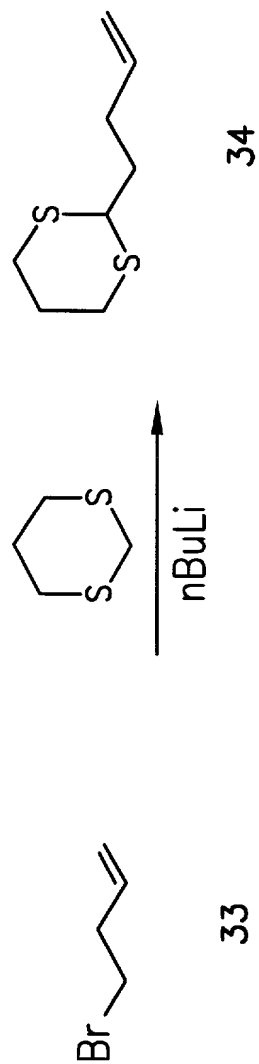


FIG. 9

9/28

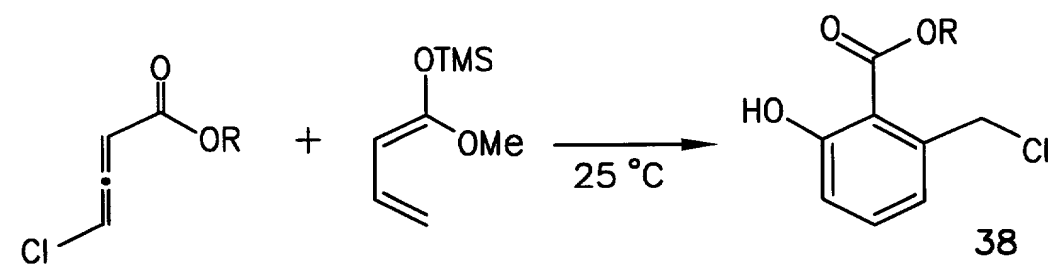
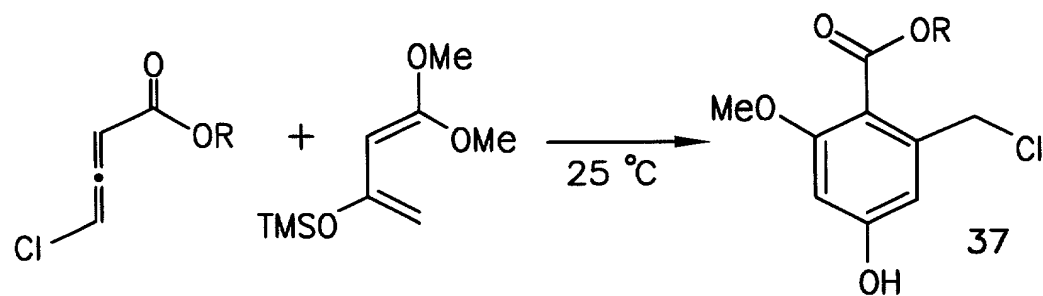
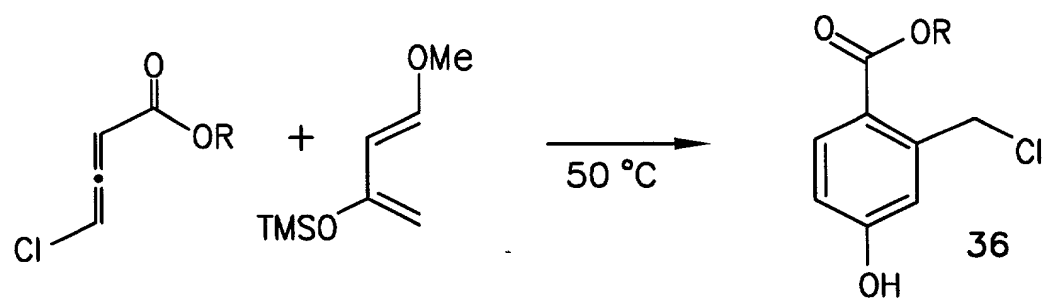
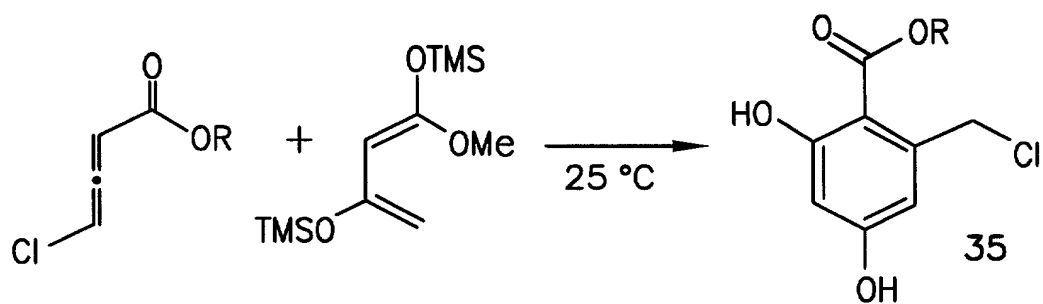
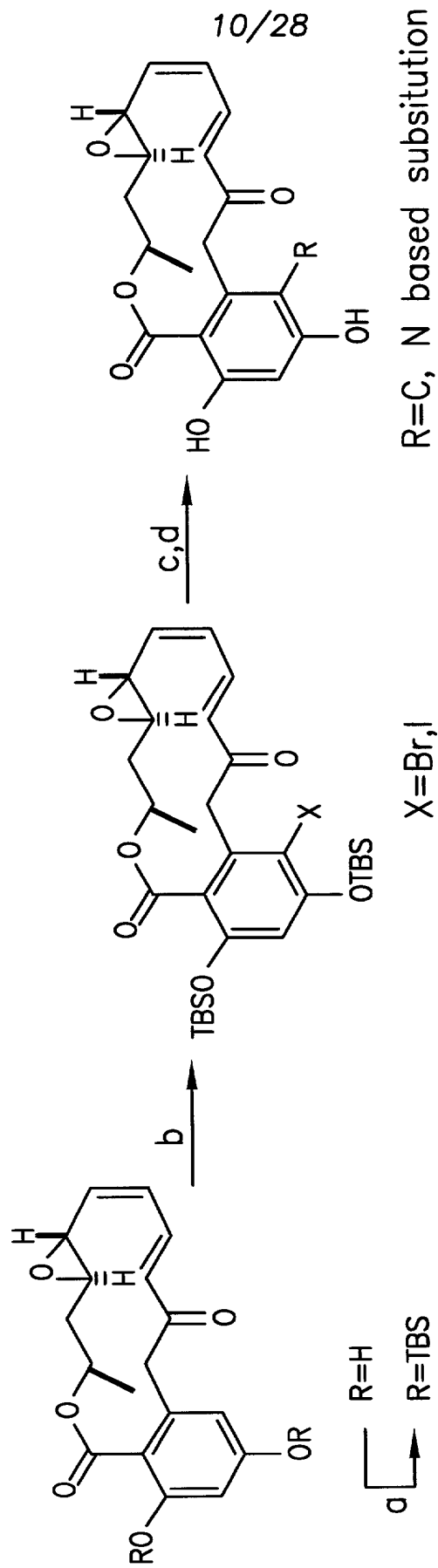
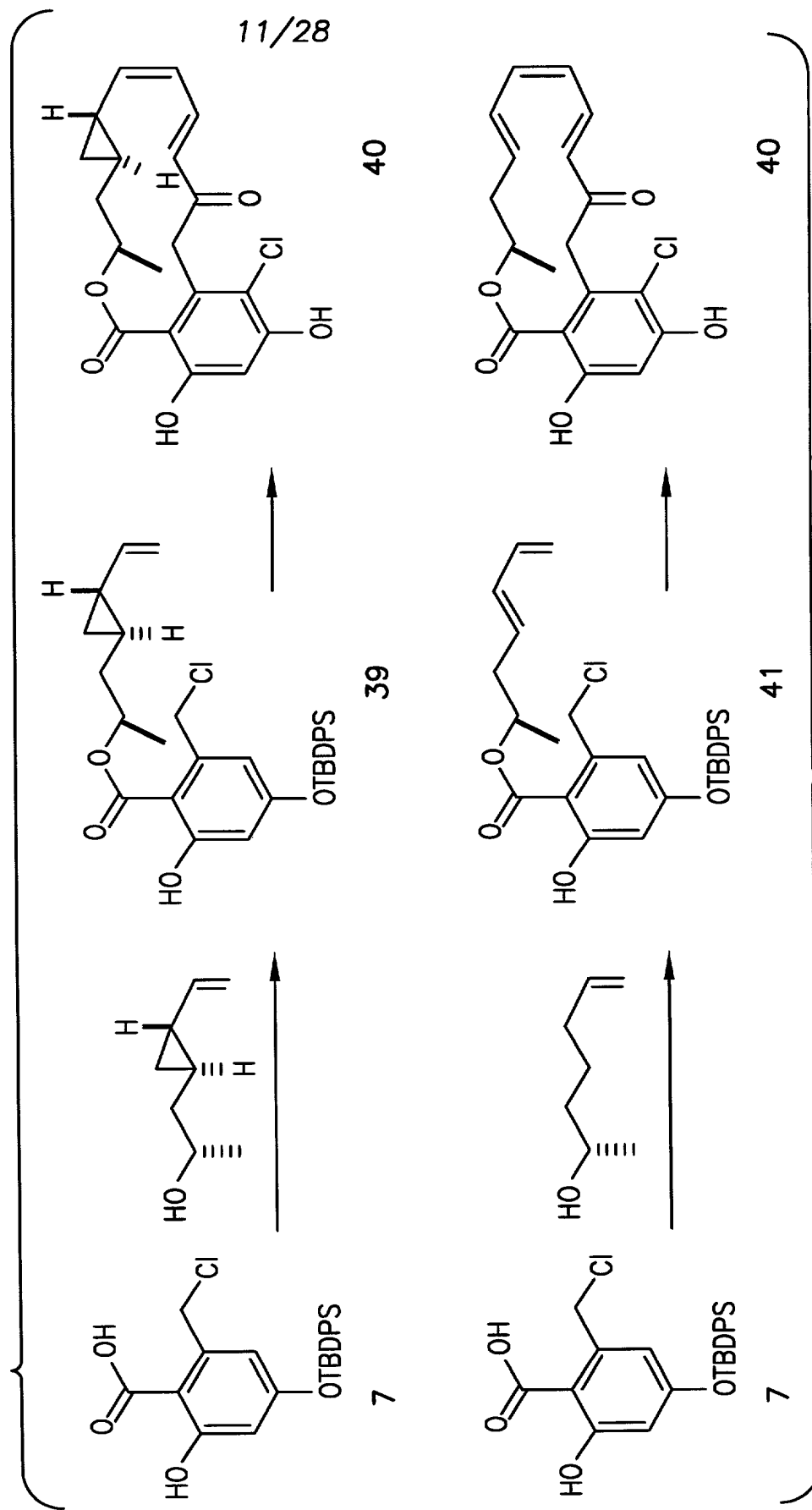


FIG. 10



a. $TBSCl$, pyridine; b. NIS or NBS , $TsOH$; c. $Pd(PPh)_3$, $RSnBu_3$, d. nBu_4NF

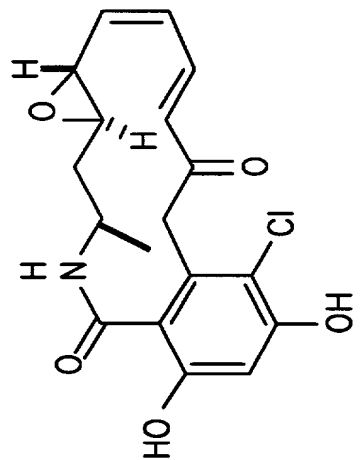
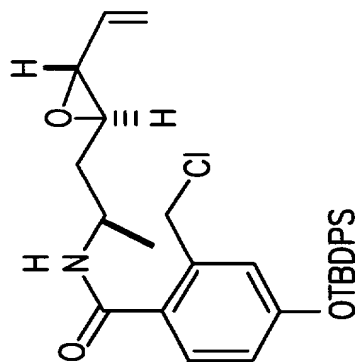
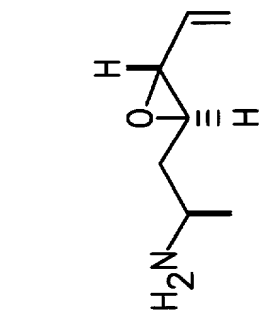
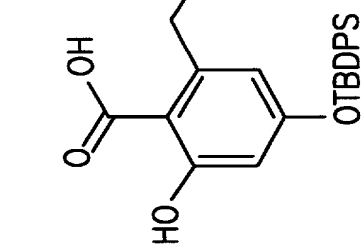
FIG. 11-1



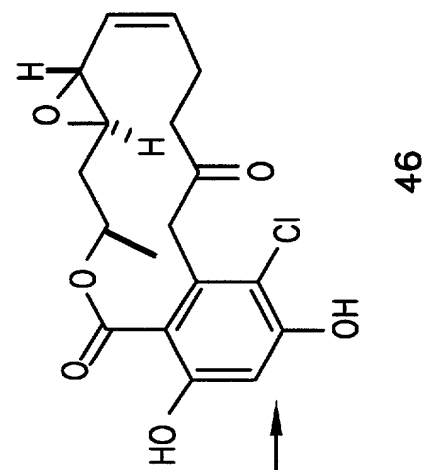
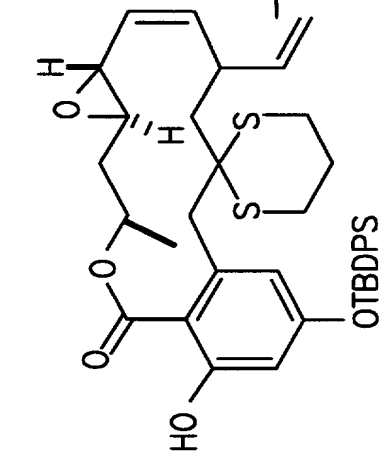
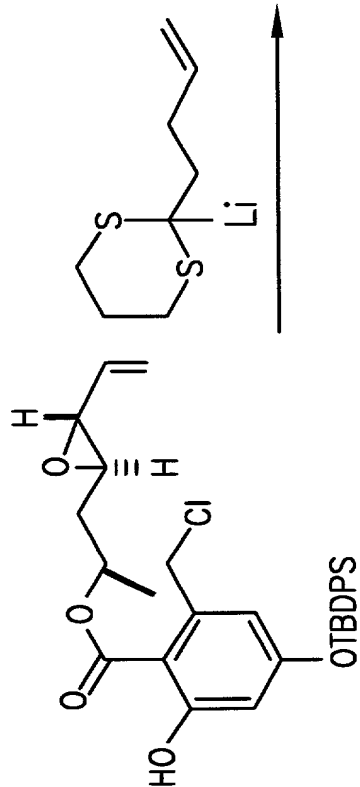
TO FIG. 11-2

FROM FIG. 11-1

FIG. 11-2



12/28

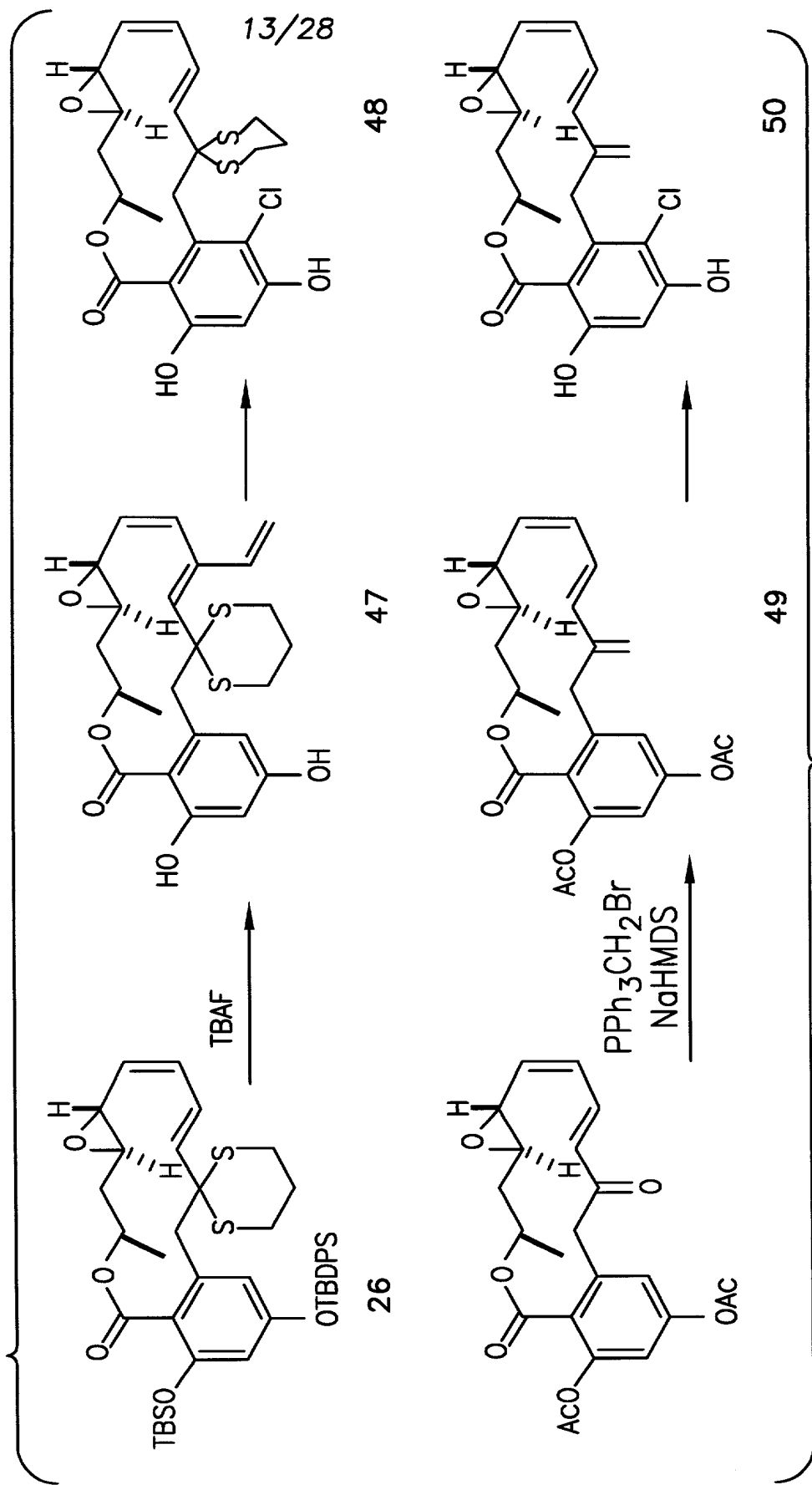


22

45

46

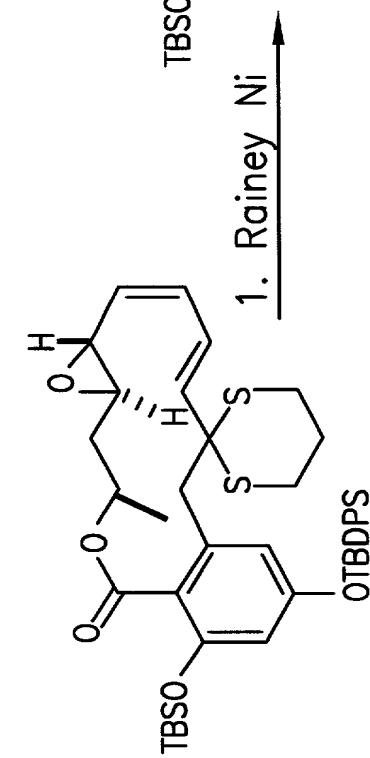
FIG. 12-1



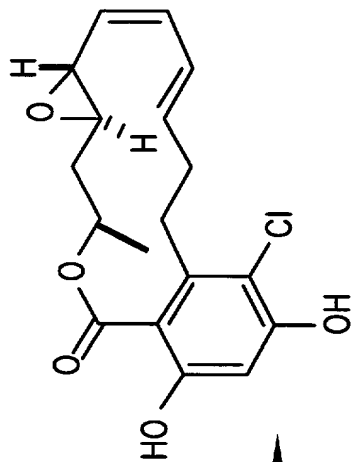
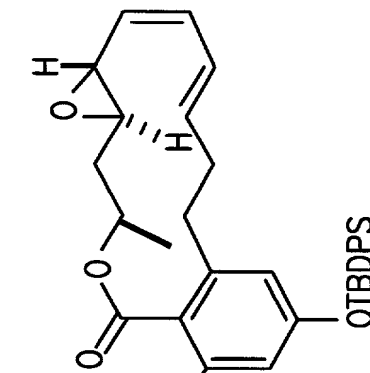
TO FIG. 12-2

FROM FIG. 12-1

FIG. 12-2



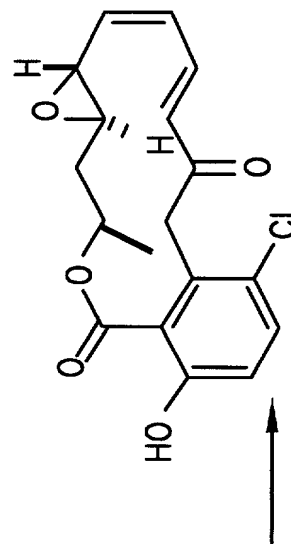
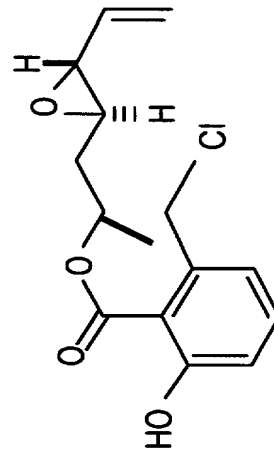
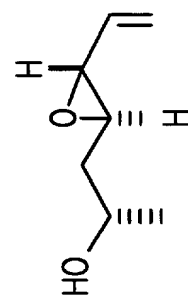
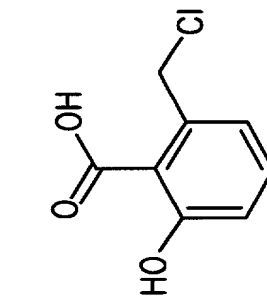
1. Rainey Ni



14/28

52

51



53

54

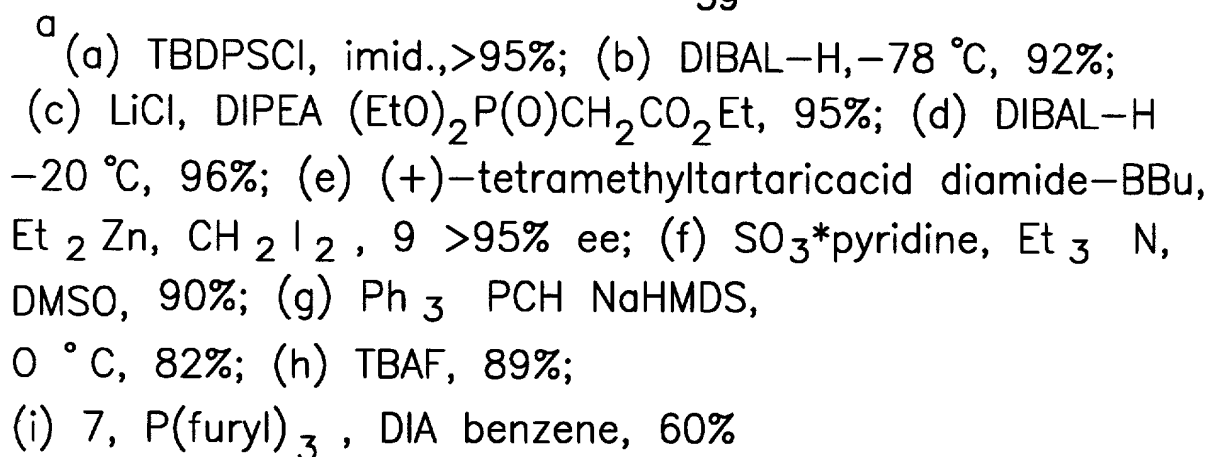


FIG. 14

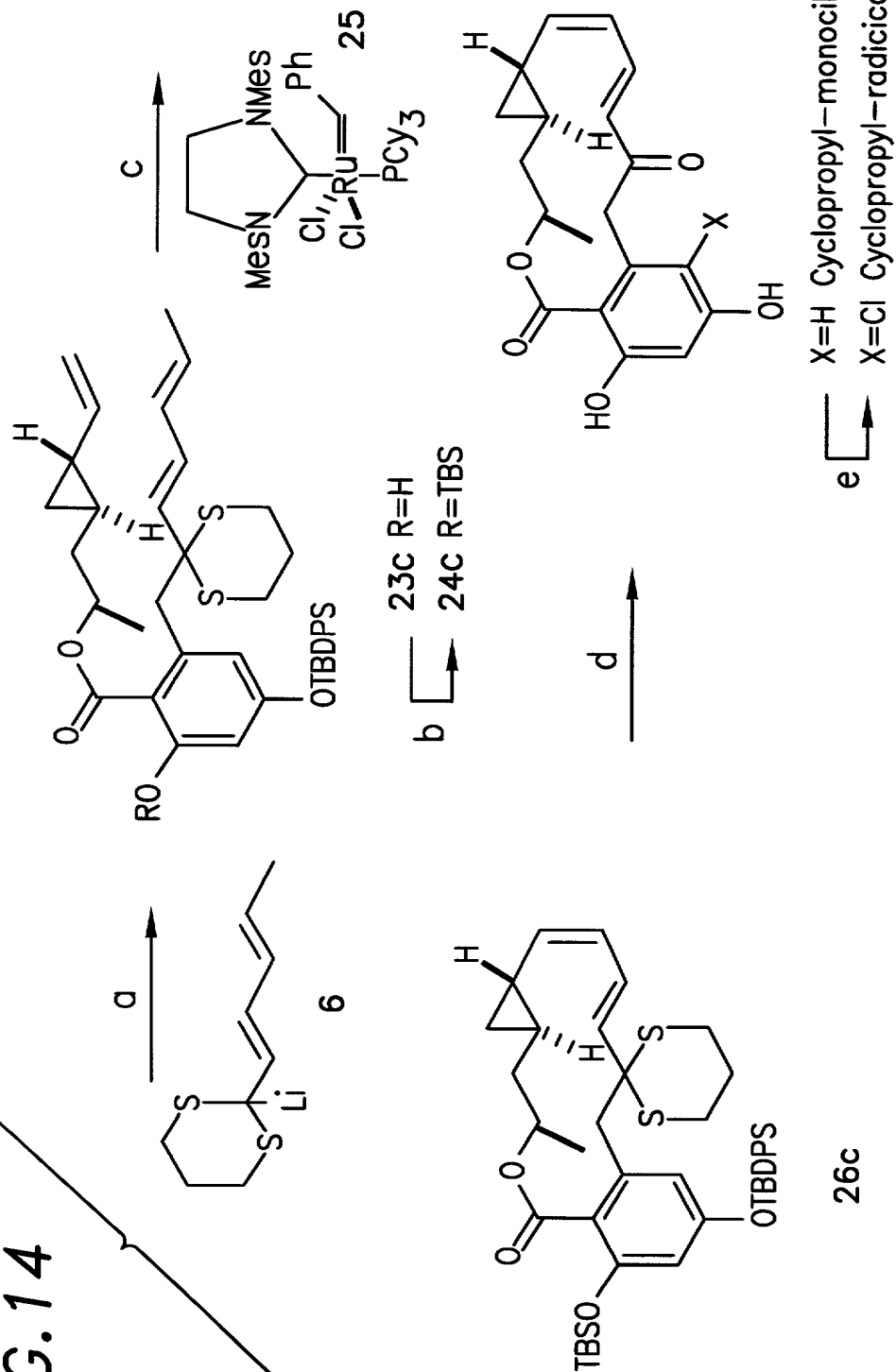
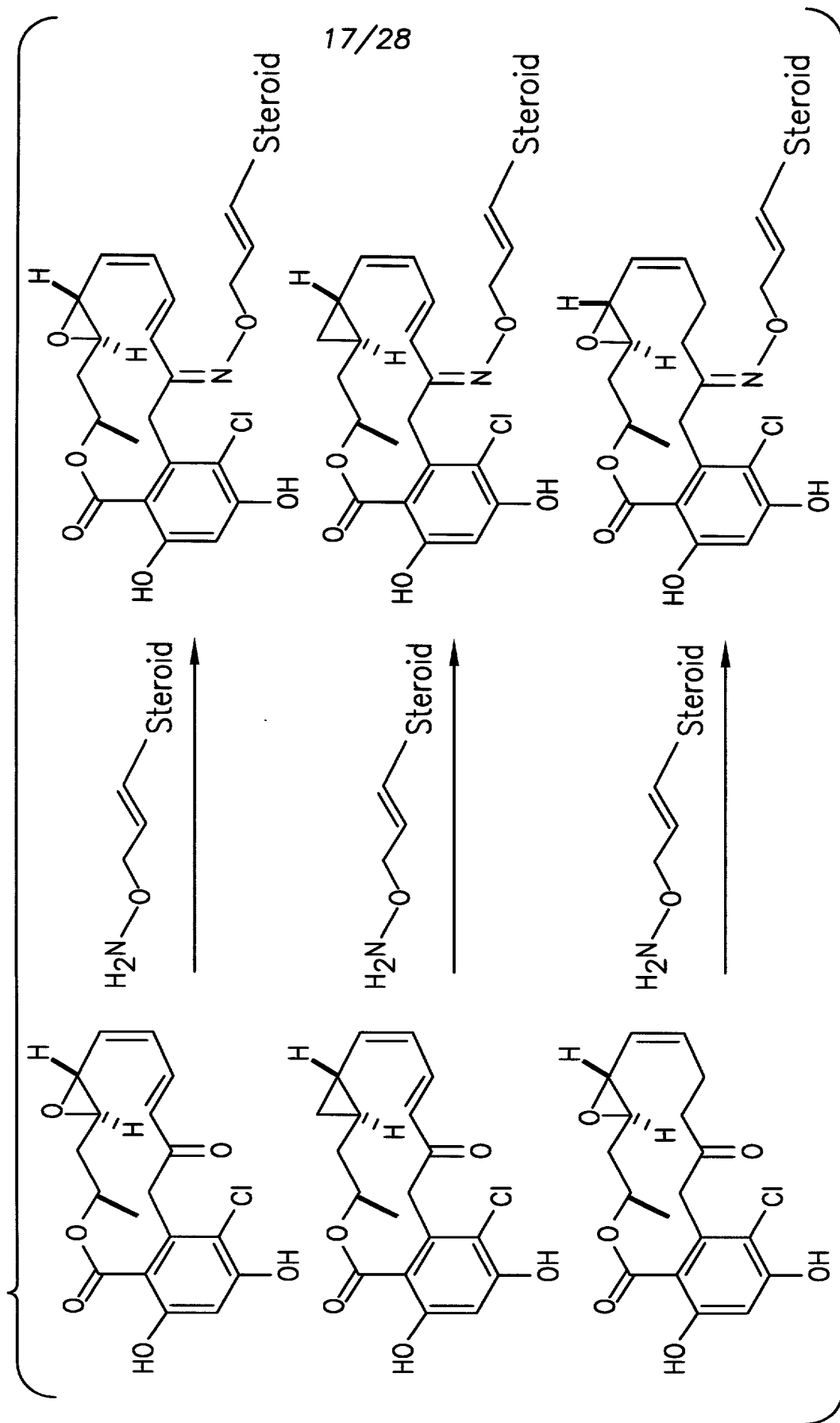


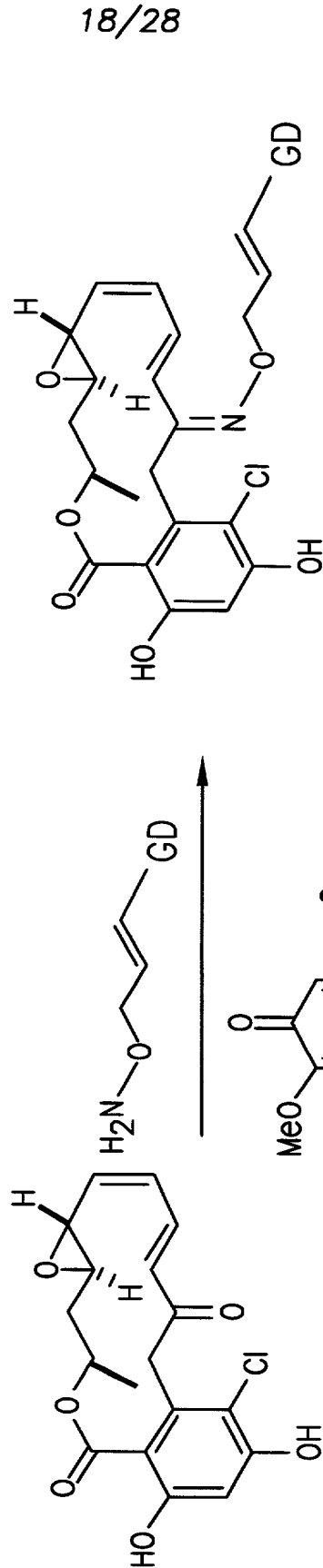
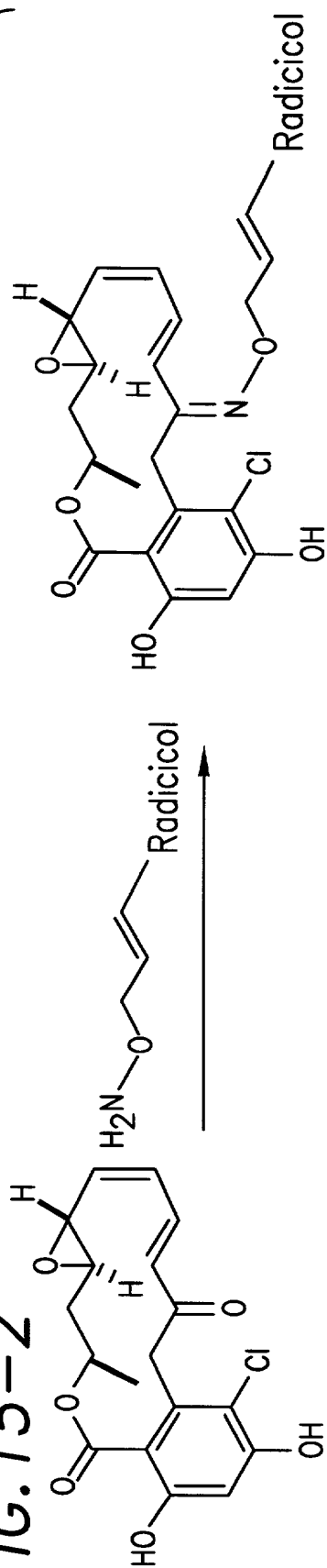
FIG. 15-1



TO FIG. 15-2

FROM FIG. 15-1

FIG. 15-2



18/28

GD=Geldanamycin

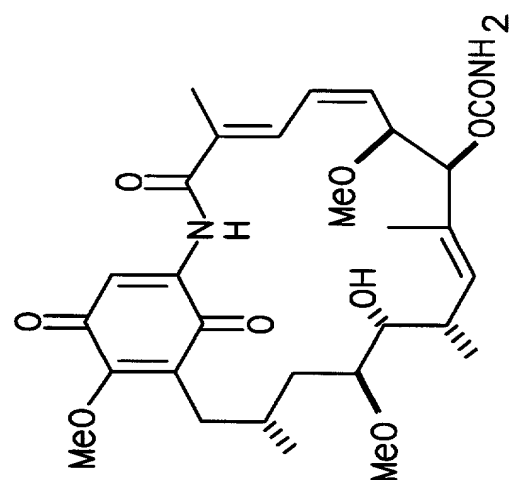
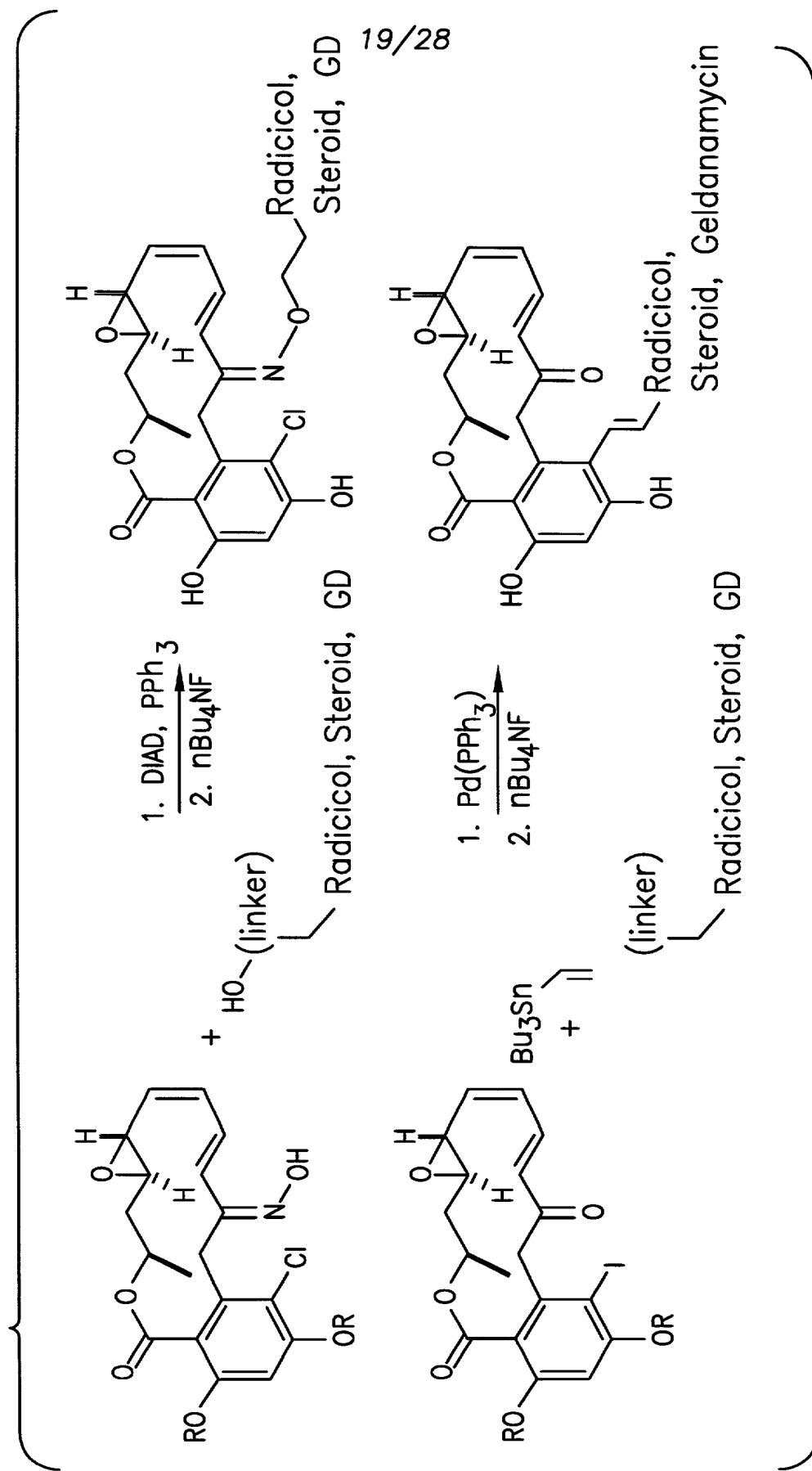


FIG. 16-1



TO FIG. 16-2

FROM FIG. 16-1

FIG. 16-2

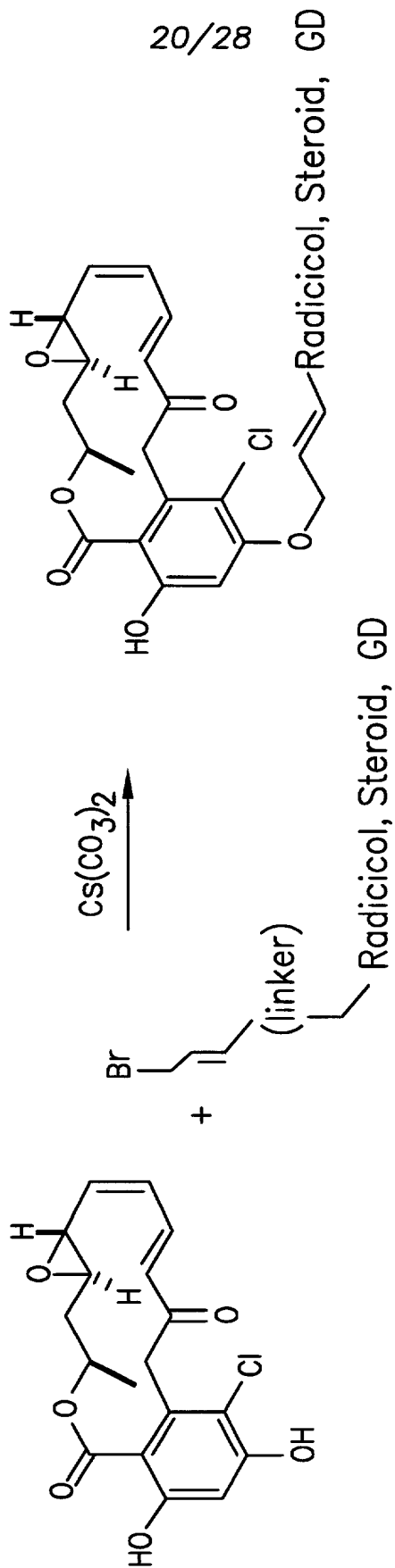
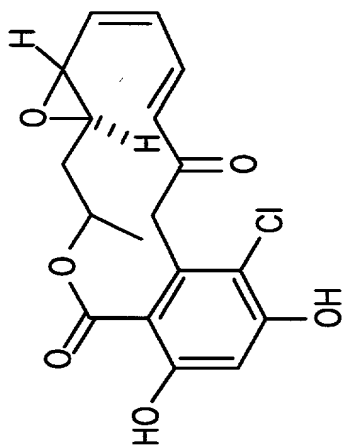
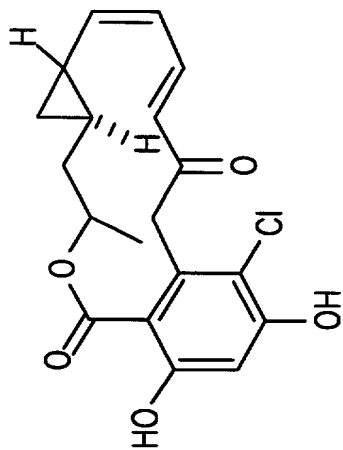


FIG. 17-1

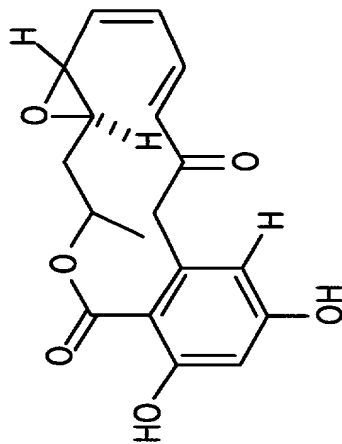
I. Radical



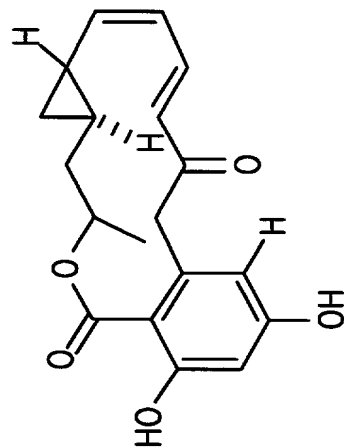
III. Cyclopropyl radical



II. Monocillin I



IV. Cyclopropyl monocillin

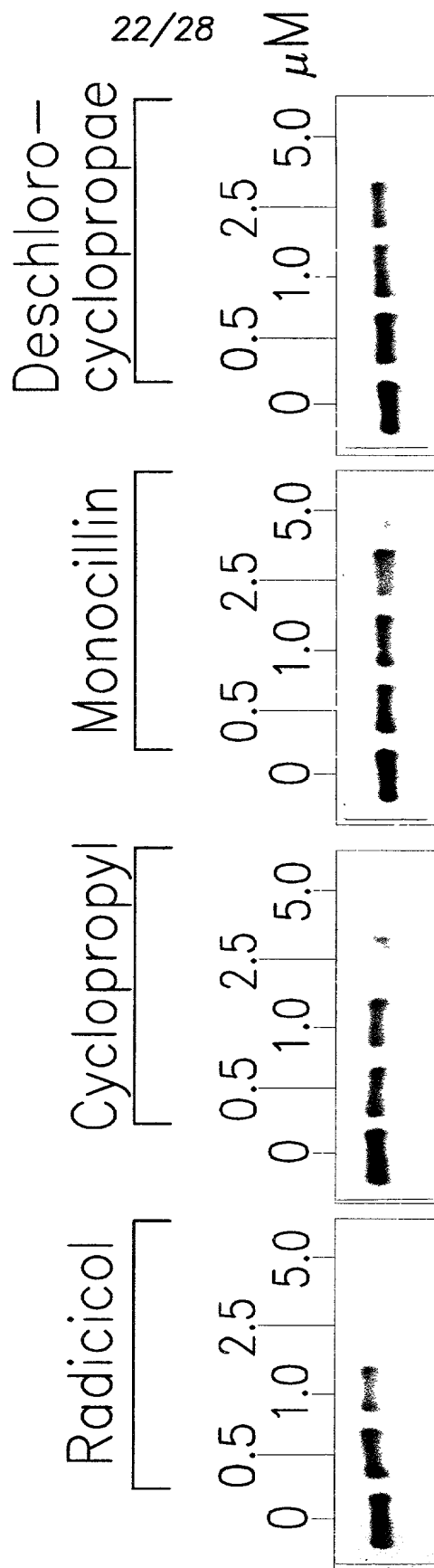


TO FIG. 17-2

FROM FIG. 17-1

FIG. 17-2

MCF7 Cells Treated with Radicicol and Analogues



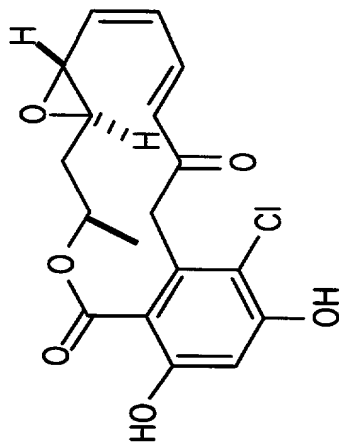
HER2

TO FIG. 17-3

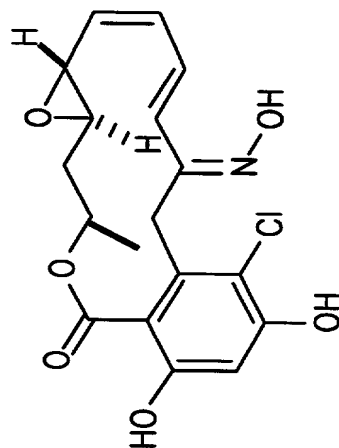
FROM FIG. 17-2

FIG. 17-3

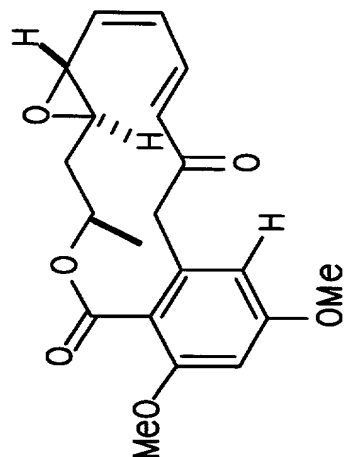
I. Radicol



VII. Radicol Oxime



V. Dimethyl Monocillin I



VI. Dimethyl Radicol

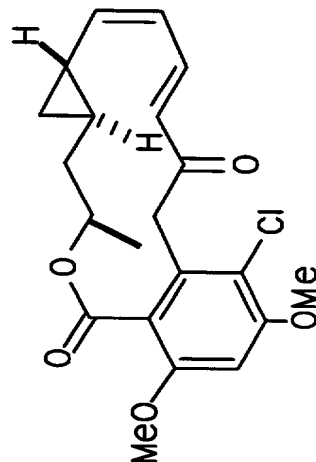
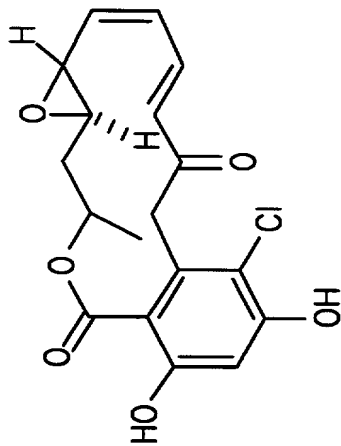
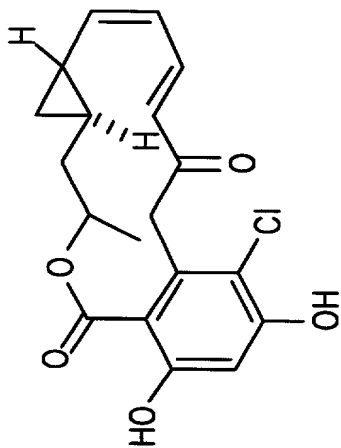


FIG. 18-1

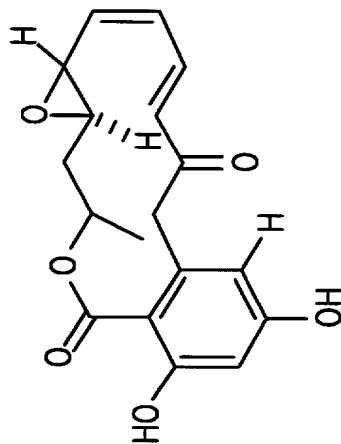
I. Radical



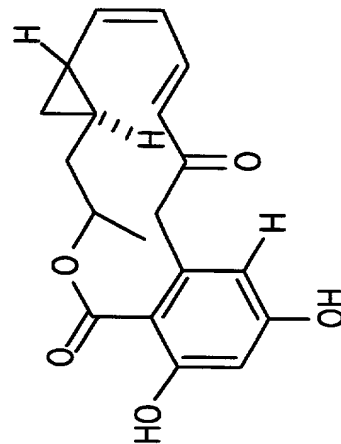
III. Cyclopropyl radical



II. Monocillin I



IV. Cyclopropyl monocillin



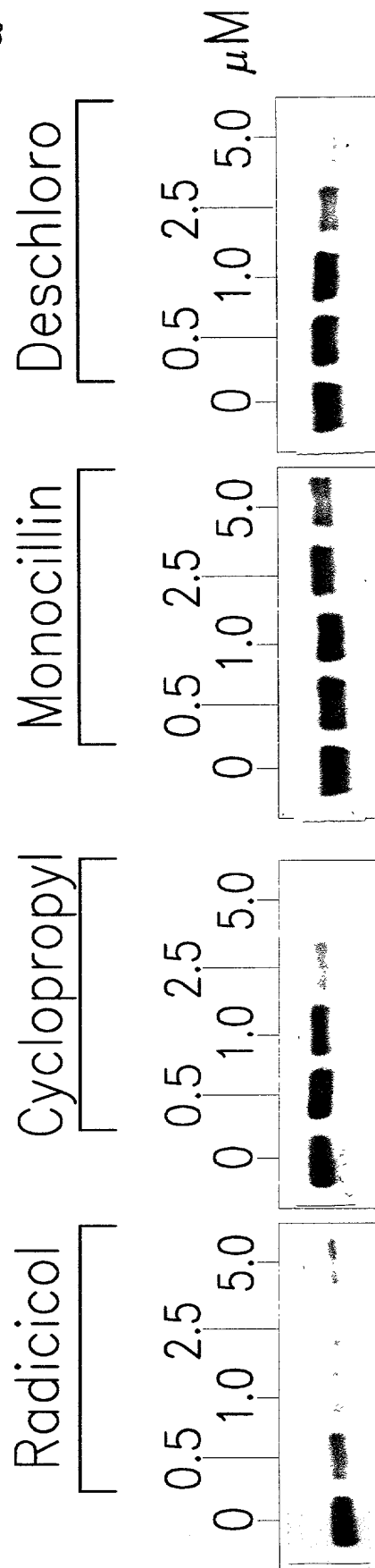
TO FIG. 18-2

FROM FIG. 18-1

FIG. 18-2

BT474 Cells Treated with Novel Radicicoliols (24hrs.)

25/28



HER2

FIG.19

Growth of MCF7 Treated with Radicicol and Derivatives of Radicicol

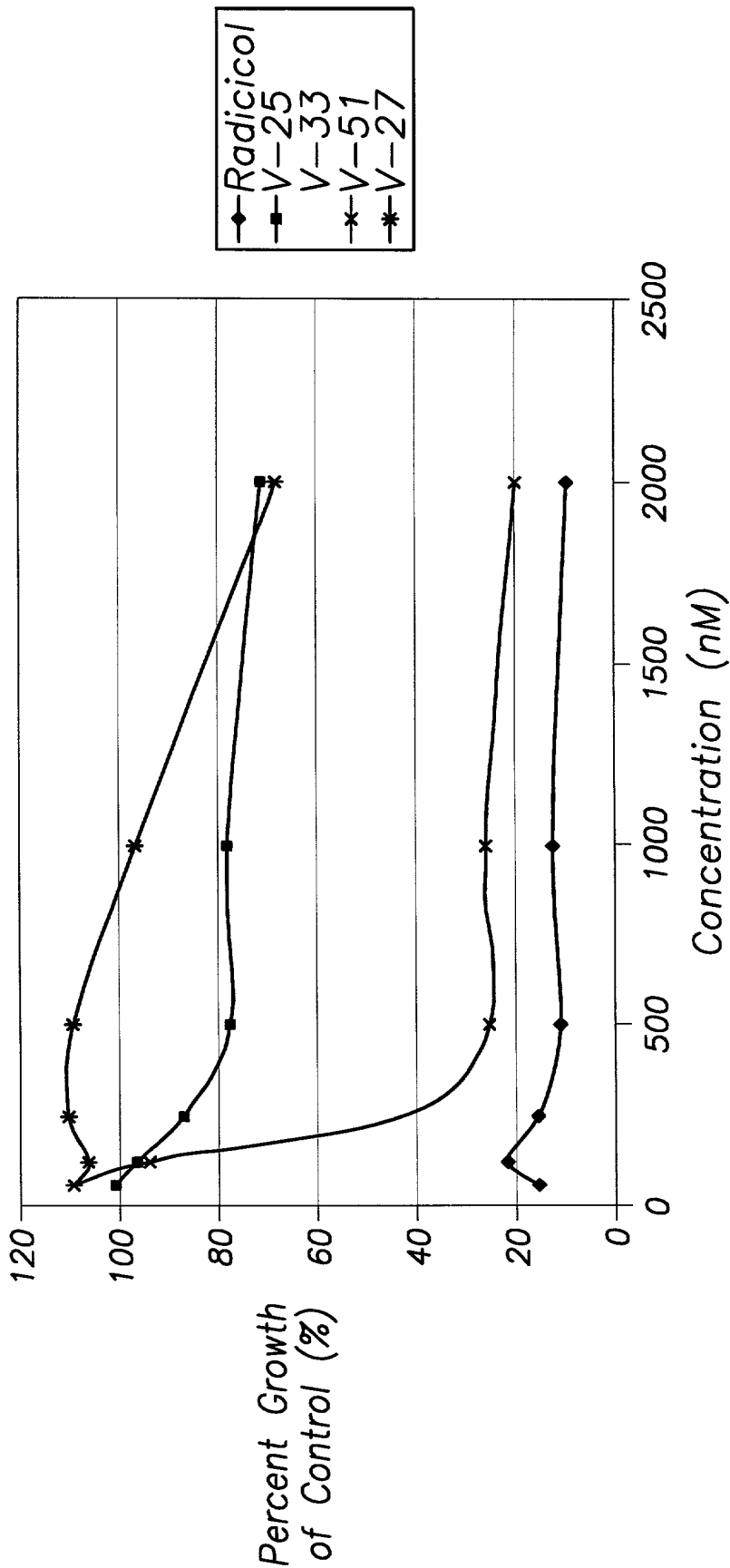


FIG.20

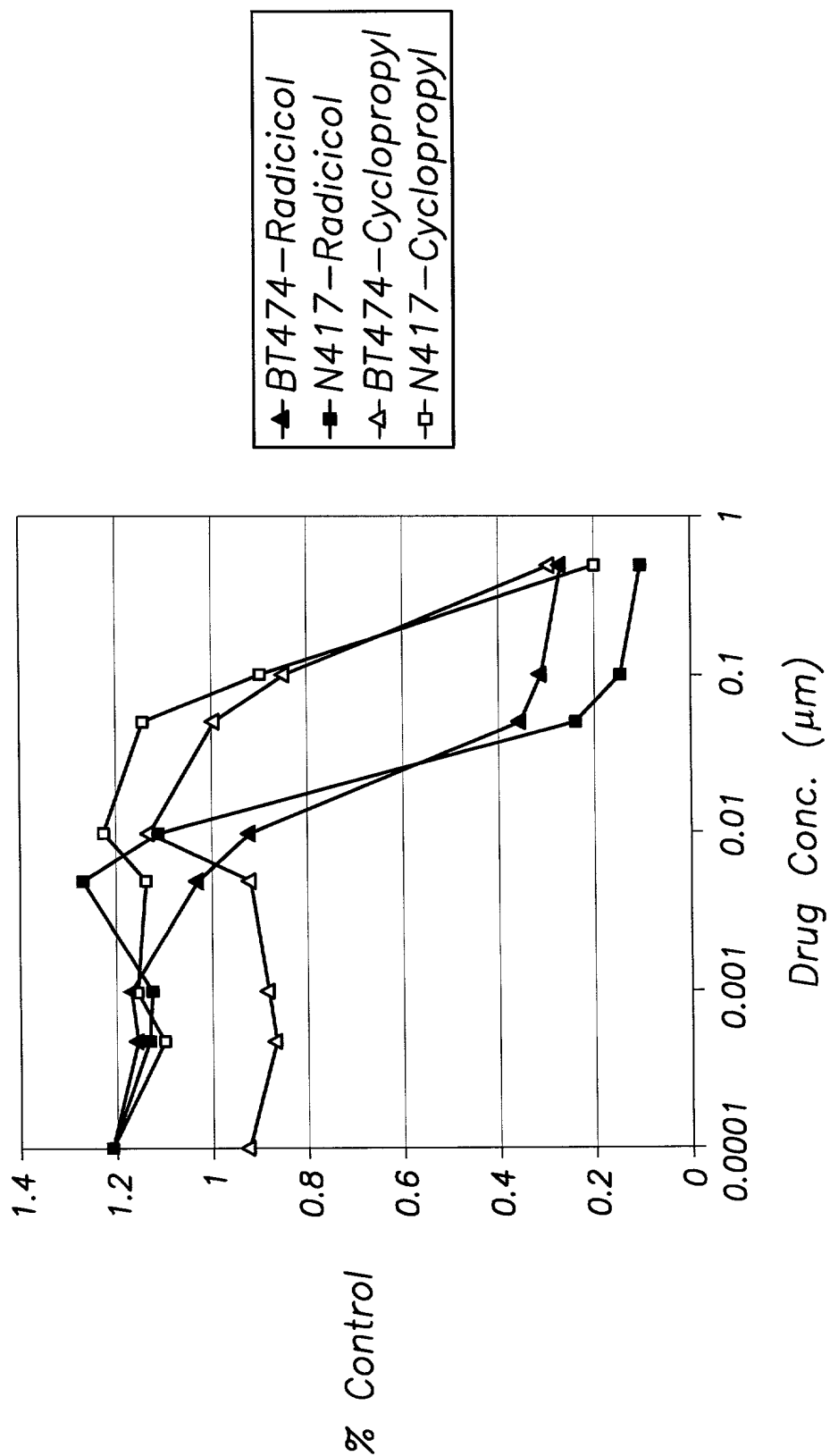


FIG.21

